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PUBL

JAN. 1, 1972

TITAN TOOL SUPPLY COMPANY INC.

68 COMET AVENUE

BUFFALO N. Y. 14216

Area Code 716 - PHONE 873-9907

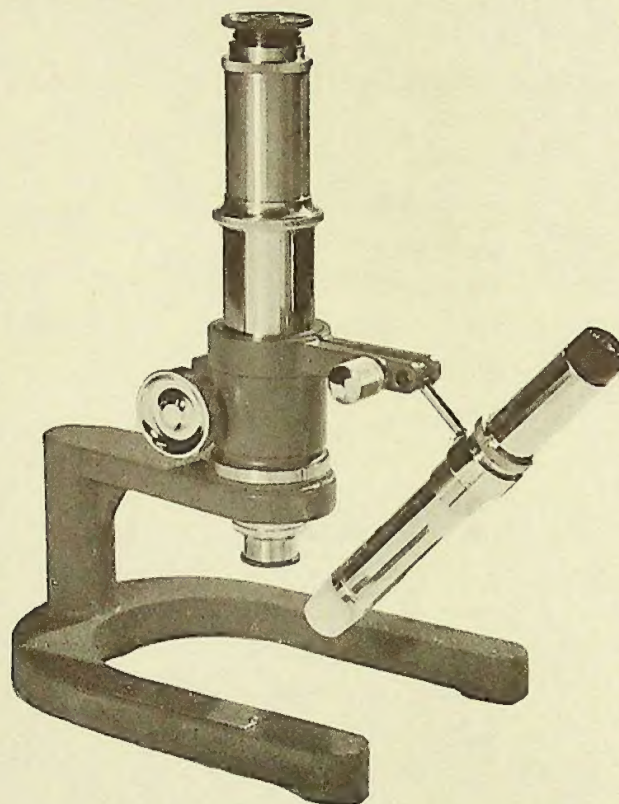
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Effective Jan. 1, 1972

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TITAN MEASURING MICROSCOPES

A handy Measuring Microscope available in three magnifications with many uses. It is ideal for engravers, toolmakers, machinists, inspectors, welders, printers, weavers, etc.



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GROUP 250

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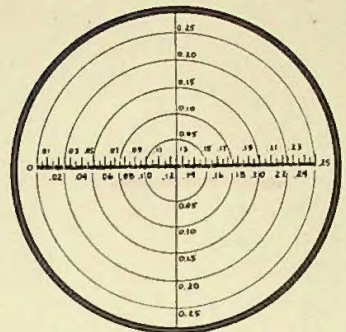
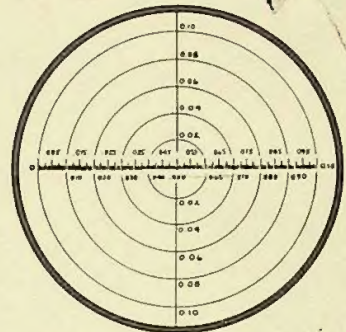
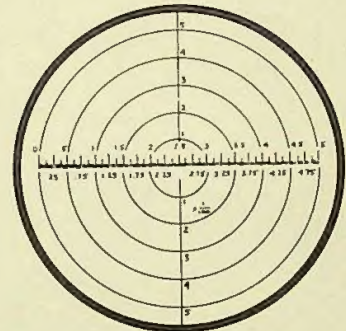
GROUP 250

These compact units have their own light source located in a simple powerful pen light which is adjustable on a two-way swivel. The base is detachable by unscrewing and can be removed for special mountings on production lines, etc. The Microscope has a precision vertical adjustment for focusing through a rack and pinion with a travel of approximately $2\frac{1}{2}$ ". The reticle can be rotated 360° and adjusted for individual eyesight by turning the top adjusting screws.

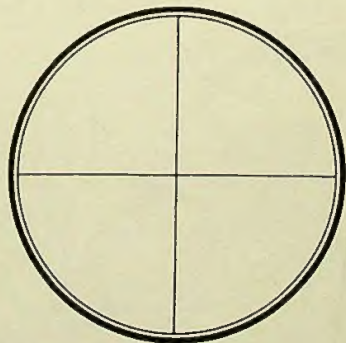
POSSIBLE USES:

- a. It can be used as an inexpensive Toolmakers' Microscope by attaching the unit to the spindle of a vertical milling machine or jig borer and using the travel of the table for measuring the object or construct a set of cross-slides with micrometer movement for positioning a work piece.
- b. Grinding: For checking the relationship between the diamond and the grinding wheel or grinding wheel and the work piece.
- c. Toolroom: Checking finish on dies, cracks, wear and distance between points.
- d. Measuring miniature screw machine parts, etc.
- e. Checking of welds for finish or cracks.
- f. Checking castings in the foundry for finish in minute hair line cracks and metallurgical properties for castings.
- g. Size of print and weave of cloth, etc.
- h. Any small production or stamped part which has to be checked in a continuous relationship.
- i. Measuring the thickness of castings on wire and wear on the dies proportionately.
- j. Measuring depth of small indentation too small to measure otherwise. This can be done by clamping the unit to a heavy large size Height Gauge, focusing in on the bottom of a fine crack which is inaccessible in any other way; then focusing in again on top. All this is done by using the fine adjustment of the Height Gauge and then reading the difference in the two readings by indicator or the vernier scale on the Height Gauge.

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MODEL 70AI 20X POWER MEASURING MICROSCOPE**\$73.90****SPECIFICATIONS:****Field of View** — .320"**Working Distance** — 2.087"**Reticle** — divided by 90° cross hairs. Five master centering circles — .50", .100", .150", .200" and .250" diameters respectively.**Horizontal Axis** — divisions are in .001", from 0 - .250"**Overall Length** — 6"**Overall Length** when fully extended — 8"**Maximum Base Length** — $6\frac{3}{8}$ "**Maximum Base Width** — $4\frac{1}{2}$ "**Maximum Base Height** — $3\frac{1}{2}$ "**Depth of Measuring U** — 5"**Width of Measuring U** — 3"**Packaged** in Mahogany carrying case.**Reticle****MODEL 71BI 60 X POWER MEASURING MICROSCOPE****\$73.90****SPECIFICATIONS:****Field of View** — .130"**Working Distance** — 1.250"**Reticle** — 90° master cross hair centering circles with five centering circles of .020", .040", .060", .080", and .100" diameters respectively.**Horizontal Axis** — divisions are in .0005", from 0 - .100". Lines can easily be split on the Microscope to read accurately to .0025".**Overall Length** — 7"**Overall Length** when fully extended — $9\frac{1}{4}$ "**Maximum Base Length** — $6\frac{3}{8}$ "**Maximum Base Width** — $4\frac{1}{2}$ "**Maximum Base Height** — $3\frac{1}{2}$ "**Depth of Measuring U** — 5"**Width of Measuring U** — 3"**Packaged** in Mahogany carrying case.**Reticle****MODEL 72A 100X POWER MEASURING MICROSCOPE****\$75.90****SPECIFICATIONS:****Field of View** — .070"**Working Distance** — .164"**Reticle** — 90° master cross hair centering lines with five centering circles of .01", .02", .03", .04", .05" diameters respectively.**Horizontal Axis** — divisions are in .00025", from 0 - .05". Lines can easily be split on the microscope to read accurately to .000125".**Overall Length** — $7\frac{3}{4}$ "**Overall Length** when fully extended — $9\frac{1}{2}$ "**Maximum Base Length** — $6\frac{3}{8}$ "**Maximum Base Width** — $4\frac{1}{2}$ "**Maximum Base Height** — $3\frac{1}{2}$ "**Depth of Measuring U** — 5"**Width of Measuring U** — 3"**Packaged** in Mahogany carrying case.**Reticle****RECEIVED****MAR 29 1972****GROUP 250****90° CROSS HAIR RETICLE****PRICE \$8.90**

This reticle can be used in all three models of Titan Measuring Microscopes. They can be installed for special applications where this type of reticle is necessary.

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